

SYS 201B

Intermediate Systems Planning, Research, Development and Engineering, Part B

This journeyman-level course requires students to apply the Systems Planning, Research, Development and Engineering (SPRD&E) processes and techniques learned in SYS 201A. Students will work in integrated product teams to apply the systems engineering process and its associated technical activities.

Objectives: Students who successfully complete this course will be able to:

- conduct a requirements analysis for a given need;
- prepare Functional Analysis and Allocation and synthesis tools for a given scenario;
- apply the acquisition risk management process;
- propose trade study methodologies; and
- develop technical performance measures.

Who Should Attend: The course is required for Level II certification in the Systems Planning, Research, Development and Engineering (SPRD&E)—Systems Engineering career field.

Prerequisite: SYS 201A and, effective May 1, 2006, the Technical Reviews continuous learning module (available at <http://clc.dau.mil>)

Recommended: At least 2 years of SPRD&E experience

Length: 5 class days

Method of Delivery: Resident/Local

PDS Code: RGX



SYS 301

Advanced Systems Planning, Research, Development and Engineering

Designed for senior DoD acquisition personnel, this course emphasizes an understanding of science, technology, and the systems engineering processes throughout a systems life cycle by using relevant case studies and exercises involving all acquisition phases and milestones. Participants employ the proven principles and tools of systems engineering requirements analyses, risk management, technical performance measures, tradeoff analyses, configuration and data management, and technical reviews. Advanced tools, such as integrated product teams, modeling and simulation, and open systems architectures, further facilitate managing the developing system.

Objectives: Students who successfully complete this course will be better able to:

- analyze and solve senior-level technical problems;
- forecast cost, schedule, performance, and risk issues across the acquisition life cycle;
- integrate program office activities;
- manage technology obsolescence; and
- use advanced technology tools.

Who Should Attend: This course is for DoD civilians, GS-13 and above, and military officers, O-3 through O-6, who are Level II certified in the Systems Planning, Research, Development and Engineering (SPRD&E) career field. Equivalent industry acquisition managers are also eligible. The course is required for Level III certification in the SPRD&E—Systems Engineering career field.

Prerequisite: SYS 201 and, effective May 1, 2006, the Technical Reviews continuous learning module (available at <http://clc.dau.mil>)

Length: 10 class days

Method of Delivery: Resident/Local

PDS Code: HV1

